

Amendments to the Specification:

Please amend the specification as follows:

Please replace the title with the following replacement title:

METHOD FOR MONITORING ENVIRONMENTAL CONDITION USING A
MATHEMATICAL MODEL

Please replace the paragraph at page 2, lines 6-12, with the following rewritten paragraph:

The instant nonprovisional patent application claims priority from the following three provisional patent applications, each filed March 10, 2000 and incorporated herein by reference: U.S. provisional patent application no. 60/188,565; U.S. provisional patent application no. 60/188,590; and U.S. provisional patent application no. 60/188,591. The following nonprovisional patent applications are hereby incorporated by reference: U.S. nonprovisional patent application no. 90/802,377 and U.S. provisional patent application no. 90/802,512.

Please replace the paragraph at page 19, line 3-11, with the following rewritten paragraph:

As shown in Fig. 3B, the top view diagram includes an array of sensors, 351A, 351B, 301C, 359th. The array is arranged in rows 351, 352, 355, 357, 359 and columns, which are normal to each other. Each of the sensors has an exposed surface for capturing, for example, olfactory information from fluids, e.g., liquid and/or vapor. The diagram shown in merely an example of an information capturing device. Details of such information capturing device are provided in U.S. Application No. 09/518,179, which is now U.S. No. 6,422,061, commonly assigned, and hereby incorporated by reference for all purposes. Other devices can

be made by companies such as Aromascan (now Osmetech), Hewlett Packard, Alpha-MOS, or other companies.

Please replace the paragraph at page 36, lines 5-12, with the following rewritten paragraph:

The above sequence of steps is merely illustrative. The steps can be performed using computer software or hardware or a combination of hardware and software. Any of the above steps can also be separated or be combined, depending upon the embodiment. In some cases, the steps can also be changed in order without limiting the scope of the invention claimed herein. One of ordinary skill in the art would recognize many other variations, modifications, and alternatives. An example according to the present invention is described in U.S. Serial No. 09/802,513 filed March 9, 2001, which is incorporated by reference for all purposes.